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Thomas Kunz, Michiel F. H. Seuren
November 1997   **Proceedings of the 1997 conference of the Centre for Advanced Studies or**

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> Understanding distributed applications is a tedious and difficult task. Visualizations based on proce
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2 Illustrative risks to the public in the use of computer systems and related technology
Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Full text available: 🔲 pdf(2.54 MB)   Additional Information: full citation

3 RAID: high-performance, reliable secondary storage
Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson
June 1994   **ACM Computing Surveys (CSUR)**, Volume 26 Issue 2

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> Disk arrays were proposed in the 1980s as a way to use parallelism between multiple disks to imp
> lines of most major computer manufacturers. This article gives a comprehensive overview of disk
> future work. First, the article introduces disk technology and reviews the driving forces that have ɪ
> the tw ...

> **Keywords**: RAID, disk array, parallel I/O, redundancy, storage, striping

4 Highly available systems for database applications
Won Kim
March 1984   **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1

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> As users entrust more and more of their applications to computer systems, the need for systems t
> even greater. This paper presents a survey and analysis of representative architectures and techn
> systems for database applications. It then proposes a design of a distributed software subsystem ɪ
> applica ...

5 Session summaries from the 17th symposium on operating systems principle (SOSP'99)
Jay Lepreau, Eric Eide
April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

6 DISP: Practical, efficient, secure and fault-tolerant distributed data storage
Daniel Ellard, James Megquier
December 2004   **ACM Transactions on Storage (TOS)**, Volume 1 Issue 1

DISP is a practical client-server protocol for the distributed storage of immutable data objects. Unl to make explicit tradeoffs between total storage space, computational overhead, and guarantees c Applications specify the degree of redundancy with which each item is encoded, what level of intec items are stor ...

Keywords: Distributed data storage

7 BASE: Using abstraction to improve fault tolerance
Miguel Castro, Rodrigo Rodrigues, Barbara Liskov
August 2003   **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 3

Software errors are a major cause of outages and they are increasingly exploited in malicious atta some software errors but it is expensive to deploy. This paper describes a replication technique, B tolerance and to improve its ability to mask software errors. BASE reduces cost because it enables availability ...

Keywords: Byzantine fault tolerance, N-version programming, asynchronous systems, proactive i

8 Practical byzantine fault tolerance and proactive recovery
Miguel Castro, Barbara Liskov
November 2002   **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4

Our growing reliance on online services accessible on the Internet demands highly available syste bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and the' describes a new replication algorithm, BFT, that can be used to build highly available systems that implement re ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine r

9 Reliability and security of RAID storage systems and D2D archives using SATA disk drives
Gordon F. Hughes, Joseph F. Murray
December 2004   **ACM Transactions on Storage (TOS)**, Volume 1 Issue 1

Information storage reliability and security is addressed by using personal computer disk drives in cost of these serial ATA (SATA) PC drives is a tradeoff against drive reliability design and demonst Fibre Channel drives. This article discusses the tradeoff between SATA which has the advantage tr storage c ...

Keywords: Disk drive, SATA, SMART, archival storage, failure prediction, secure erase, storage re

10 Hive: fault containment for shared-memory multiprocessors
J. Chapin, M. Rosenblum, S. Devine, T. Lahiri, D. Teodosiu, A. Gupta
December 1995   **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACI**

11 Pilot: an operating system for a personal computer

David D. Redell, Yogen K. Dalal, Thomas R. Horsley, Hugh C. Lauer, William C. Lynch, Paul R. McJon

February 1980   **Communications of the ACM**, Volume 23 Issue 2

Full text available: 🔁 pdf(1.14 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>

Keywords: file, high-level language, modular programming, network, operating system, personal

12 The HP AutoRAID hierarchical storage system

John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan

February 1996   **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1

Full text available: 🔁 pdf(1.82 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>refere</u>

Configuring redundant disk arrays is a black art. To configure an array properly, a system adminis
workload it will support. Incorrect understanding of either, or changes in the workload over time, (
problem: a two-level storage hierarchy implemented inside a single disk-array controller. In the u|
provide f ...

Keywords: RAID, disk array, storage hierarchy

13 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985   **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

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Distributed operating systems have many aspects in common with centralized ones, but they also
distributed operating systems, and especially to current university research about them. After a di
how it is distinguished from a computer network, various key design issues are discussed. Then se
detail ...

14 The HP AutoRAID hierarchical storage system

J. Wilkes, R. Golding, C. Staelin, T. Sullivan

December 1995   **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACI**

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15 A Survey of Techniques for Synchronization and Recovery in Decentralized Computer Syste

Walter H. Kohler

June 1981   **ACM Computing Surveys (CSUR)**, Volume 13 Issue 2

Full text available: 🔁 pdf(3.33 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

16 The TickerTAIP parallel RAID architecture

Pei Cao, Swee Boon Lin, Shivakumar Venkataraman, John Wilkes

August 1994   **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 3

Full text available: 🔁 pdf(2.04 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>refere</u>

Traditional disk arrays have a centralized architecture, with a single controller through which all re
performance limits the maximum number of disks to which the array can scale. We describe Ticke
controller functions across several loosely coupled processors. The result is better scalability, fault

Keywords: RAID disk array, decentralized parity calculation, disk scheduling, distributed controlle

17 Crosshatch disk array for improved reliability and performance

S. W. Ng

Full text available: pdf(955.28 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>refere</u>

Redundant disk array architecture provides fault tolerance against disk drive failures. However, a ⸱ must also be controllers for interfacing with the disk drives, cabling for providing data/control patr must also be able to tolerate failure in any one of these components. While currently known array the ...

18 Experience Using Multiprocessor Systems—A Status Report

Anita K. Jones, Peter Schwarz
June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Full text available: pdf(4.48 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

19 Fault Tolerant Operating Systems

Peter J. Denning
December 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 4

Full text available: pdf(2.69 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index</u>

20 A taxonomy of computer program security flaws

Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi
September 1994   **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Full text available: pdf(3.81 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>refere</u>

An organized record of actual flaws can be useful to computer system designers, programmers, ar for computer program security flaws, with an Appendix that documents 50 actual security flaws. T literature, but in widely separated places. For those new to the field of computer security, they pr⸱ how they ...

Keywords: error/defect classification, security flaw, taxonomy

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